

**INORGANIC SOLID LUBRICANT FOR HIGH TEMPERATURE FOIL
BEARING**

ABSTRACT OF THE DISCLOSURE

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Inorganic solid lubricant coatings and processes for applying a solid lubricant coating to a substrate surface. A process for applying the solid lubricant coating may involve applying a precursor material to the substrate surface, and thereafter melting at least one inorganic bonding component of the precursor material to bond the solid lubricant coating to the substrate surface.

10 The precursor material may comprise an organic polymer binder, at least one wear-resistant component, and at least one friction-reducing constituent, in addition to the at least one bonding component.